



Primary lithium batteries

G 06/2

3.0 V Primary lithium-sulfur dioxide (Li-SO₂)

High drain capability

AA - size spiral cell



Benefits

- High and stable discharge voltage
- High pulse capability
- Performance not affected by cell orientation
- Long storage possible before use
- Ability to withstand extreme temperature

Key features

- Low self-discharge rate (less than 3% after 1 year of storage at +20°C)
- Hermetic glass-to-metal sealing
- Built-in safety vent (at the negative end of the cell)
- Meets shock, vibration and other environmental requirements of military specifications
- Made in UK

Main applications

- Radiocommunications and other military applications
- Respirators
- Memory back-up
- Professional electronics

Cell size reference

R6 - AA

Electrical characteristics

(typical values relative to cells stored for one year or less at +30 °C max.)

Nominal capacity (at 80 mA +20°C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off) 0.95 Ah

Open circuit voltage (at +20°C) 3.0 V

Nominal voltage (at 0.06 A +20°C) 2.8 V

Continuous current permitting 50% of the nominal capacity to be achieved at +20°C with 2.0 V cut off. 0.5 A

Pulse capability : Typically up to 0.8 A.
(The voltage readings may vary according to the pulse characteristics, the temperature and the cell's previous history. Fitting the cell with a capacitor may be recommended in severe conditions. Consult Saft)

Storage (recommended) (possible without leakage) +30°C (+86°F) max
+85°C (+185°F) max

Operating temperature range -60 °C/ +70 °C
(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft) (-76°F/+158°F)

Physical characteristics

Diameter (max) 14.2 mm (0.56 in)

Height (max) 50.3 mm (1.98 in)

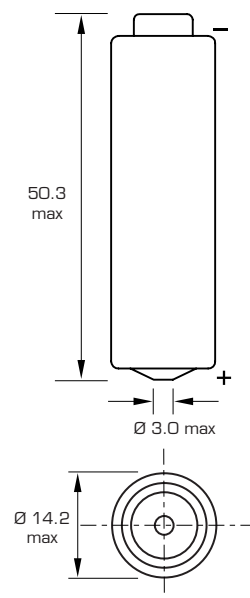
Typical weight 15 g (0.53 oz)

Li metal content 0.4 g

Standard cell comes with protruding positive end-cap.
Finish with tabs available on request.



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Overall dimensions in mm

Handling precautions

- Cell is pressurised.
- Do not puncture, open or mutilate.
- Do not obstruct the safety vent mechanism.
- Do not short circuit or charge.
- Do not expose to fire or temperatures above +70°C (+158°F).

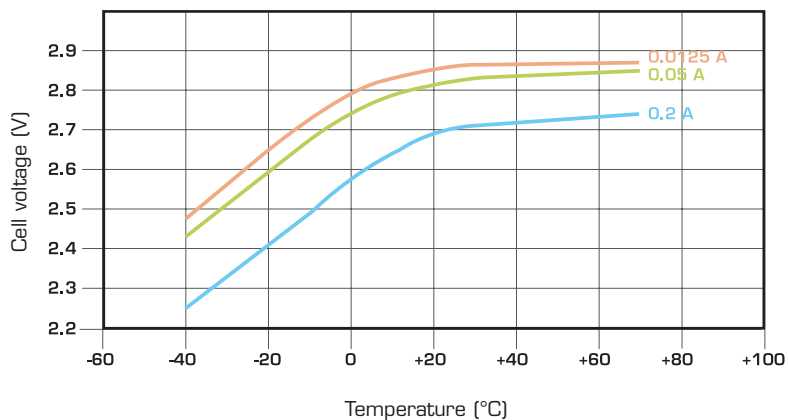
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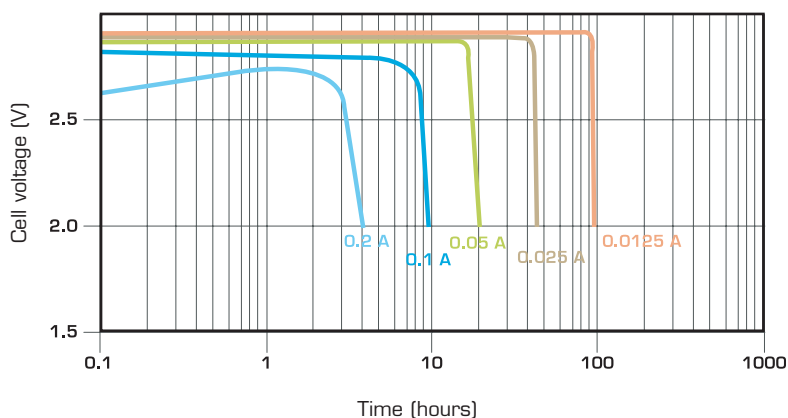
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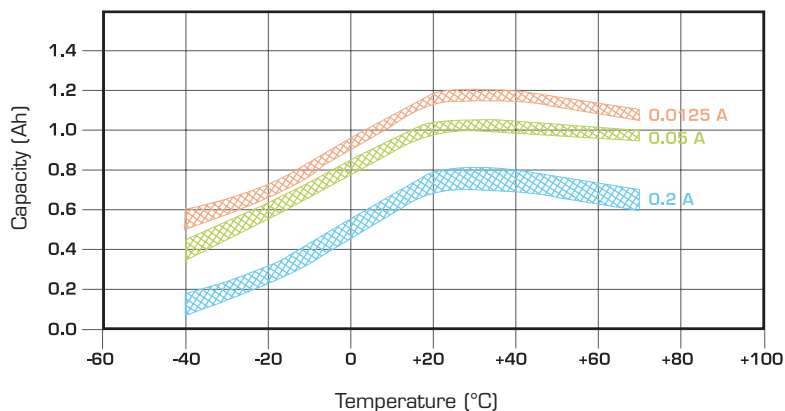
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Voltage at mid-discharge versus Current and Temperature (2.0 V cut-off)



Typical discharge profiles at +20°C



Capacity versus Current and Temperature (continuous discharges 2.0 V cut-off)

Doc. N° 31060-2-1005

Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft.

For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2.

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